

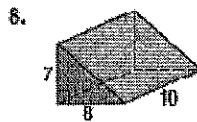
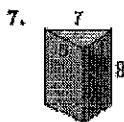
Key

Find the lateral area of each prism or solid. Round to the nearest tenth if necessary.

#7

$$p = 5 + 4 + 7 = 16$$

$$LA = ph = 16 \cdot 8 = 128 u^2$$



#8  $p = 7 + 8 + 10.6 \approx 25.6$

$$LA = 25.6 \cdot 10 = 256.3$$

$$7^2 + 8^2 = c^2$$

$$\sqrt{7^2 + 8^2} = c$$

$$10.6$$

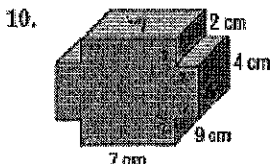
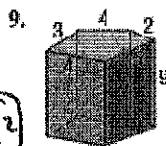
#10  $p = 38$

$$LA = 38 \cdot 9 = 342 cm^2$$

#9

$$p = 3 + 4 + 2 + 5 + 4 = 18$$

$$LA = 18 \cdot 9 = 162 u^2$$



Find the surface area of each prism. Round to the nearest tenth if necessary.

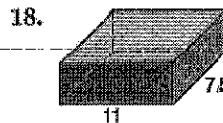
#16

$$p = 8 + 17 + 15 = 40$$

$$B = \frac{1}{2} \cdot 8 \cdot 15 = 60 u^2$$

$$LA = 40 \cdot 4 = 160 u^2$$

$$TA = 160 + 2(60) = 280 u^2$$



#18

$p = 37$

$B = 82.5$

$$LA = 37 \cdot 4 = 148$$

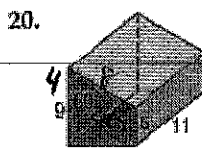
$$TA = 148 + 2(82.5) = 313$$

#17

$p = 22$   $B = 24$

$$LA = 22 \cdot 3 = 66 u^2$$

$$TA = 66 + 2(24) = 114 u^2$$



#20  $n = 4\sqrt{3}$

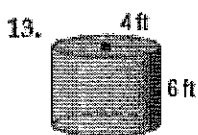
$$p = 8 + 9 + 5 + 4\sqrt{3} = 28.9$$

$$B = \frac{1}{2} \cdot 4\sqrt{3} \cdot (5 + 9) \approx 48.5$$

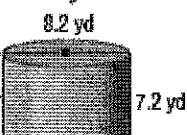
$$LA = 28.9 \cdot 11 = 317.9$$

$$TA = 317.9 + 2(48.5) \approx 414.9 u^2$$

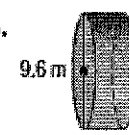
Find the surface area of each cylinder. Round to the nearest tenth.



#14  $C = 8\pi$



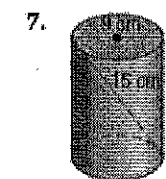
#15  $C = 1.8\pi$



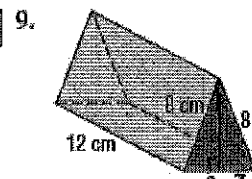
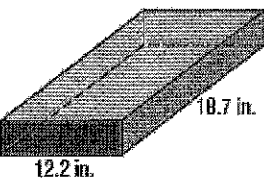
#16  $C = 9.6\pi$

$B = 28.41\pi$

Find the volume of each prism or cylinder. Round to the nearest tenth if necessary.



#8  $B = 228.14$



#9  $\Delta 8^2 = 3^2 + h^2$

$7.4 = h$

#7

$$15^2 = 9^2 + h^2$$

$$12 = h$$

$$B = 4.5^2 \pi = 20.25\pi$$

$$V = 20.25\pi \cdot 12 = 243\pi$$

$$763.4 cm^3$$

$$V = 228.14 \cdot 3.6$$

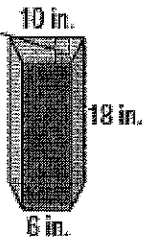
$$821.3 in^3$$

#12

$$B = \frac{1}{2} \cdot 4 \cdot (10 + 6)$$

$$32 in^2$$

$$V = 32 \cdot 18 = 576 in^3$$



$$B = \frac{1}{2} \cdot 7.4 \cdot 6 = 22.2 cm^2$$

$$V = 22.2 \cdot (12)$$

$$267.0 cm^3$$